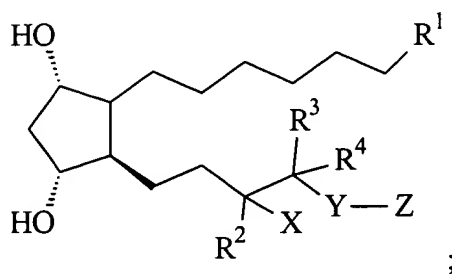


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A topical composition for treating hair loss comprising:

A) an active ingredient selected from the group consisting of a prostaglandin F analog having the structure



and pharmaceutically acceptable salts and hydrates of the prostaglandin F analog; biohydrolyzable amides, esters, and imides of the prostaglandin F analog; optical isomers, diastereomers, and enantiomers of the prostaglandin F analog; and combinations thereof;

wherein R^1 is selected from the group consisting of CO_2H , $\text{C}(\text{O})\text{NHOH}$, CO_2R^5 , CH_2OH , $\text{S}(\text{O})_2\text{R}^5$, $\text{C}(\text{O})\text{NHR}^5$, $\text{C}(\text{O})\text{NHS}(\text{O})_2\text{R}^5$, and tetrazole;

R^2 is selected from the group consisting of a hydrogen atom and a lower monovalent hydrocarbon group;

R^3 and R^4 are each independently selected from the group consisting of OR^{10} , SR^{10} , and OH ; with the proviso that both R^3 and R^4 are not OH ;

R^5 is selected from the group consisting of monovalent hydrocarbon groups, substituted monovalent hydrocarbon groups, aromatic groups, substituted aromatic groups, carbocyclic groups, substituted carbocyclic groups, heterogeneous groups, substituted heterogeneous groups, heterocyclic groups, substituted heterocyclic groups, heteroaromatic groups, and substituted heteroaromatic groups;

X is selected from the group consisting of NR^6R^7 , OR^8 , SR^9 , $\text{S}(\text{O})\text{R}^9$, and $\text{S}(\text{O})_2\text{R}^9$;

R^6 , R^7 , and R^8 are each independently selected from the group consisting of hydrogen atoms, acyl groups, monovalent hydrocarbon groups, substituted monovalent hydrocarbon

groups, heterogeneous groups, substituted heterogeneous groups, carbocyclic groups, substituted carbocyclic groups, aromatic groups, substituted aromatic groups, heteroaromatic groups, and substituted heteroaromatic groups;

R^9 is selected from the group consisting of monovalent hydrocarbon groups, substituted monovalent hydrocarbon groups, heterogeneous groups, substituted heterogeneous groups, carbocyclic groups, substituted carbocyclic groups, heterocyclic groups, substituted heterocyclic groups, aromatic groups, substituted aromatic groups, heteroaromatic groups, and substituted heteroaromatic groups;

R^{10} is selected from the group consisting of a monovalent hydrocarbon group, a substituted monovalent hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; with the proviso that R^{10} has 1 to 8 member atoms;

Y is selected from the group consisting of ~~an oxygen atom~~, a divalent hydrocarbon group, a sulfur-containing moiety, and a nitrogen-containing group; and

Z is selected from the group consisting of a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and

B) a carrier.

2. (Original) The composition of claim 1, wherein R^1 is selected from the group consisting of CO_2H , CO_2CH_3 , $CO_2C_2H_5$, $CO_2C_3H_7$, $CO_2C_4H_9$, $CO_2C_3H_7O_2$, and $C(O)NHS(O)_2R^5$.

3. (Original) The composition of claim 1, wherein R^5 is selected from the group consisting of CH_3 , C_2H_5 , and C_3H_7 .

4. (Original) The composition of claim 1, wherein R^2 is selected from the group consisting of a hydrogen atom and a methyl group.

5. (Canceled)

6. (Original) The composition of claim 1, wherein X is selected from the group consisting of NR^6R^7 and OR^8 .

7. (Withdrawn) The composition of claim 1, wherein R^6 and R^7 are each independently selected from the group consisting of H, CH_3 , and C_2H_5 .

8. (Original) The composition of claim 1, wherein R^8 is selected from the group consisting of H, CH_3 , C_2H_5 , and C_3H_7 .

9. (Withdrawn) The composition of claim 1, wherein R^9 is selected from the group consisting of CH_3 , and C_2H_5 .

10. (Withdrawn) The composition of claim 1, wherein Y is a divalent hydrocarbon group having the formula $(\text{CH}_2)_n$, wherein n is 1.

11. (Currently Amended) The composition of claim 1, wherein Y is selected from the group consisting of a sulfur atom, ~~an oxygen atom~~, $\text{S}(\text{O})$, and $\text{S}(\text{O})_2$.

12. (Withdrawn) The composition of claim 1, wherein Y is a nitrogen-containing group having the formula NR^{11} ; wherein R^{11} is selected from the group consisting of a hydrogen atom, an acyl group, a monovalent hydrocarbon group, a substituted monovalent hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group.

13. (Original) The composition of claim 1, wherein Z is selected from the group consisting of a monocyclic carbocyclic group, a substituted monocyclic carbocyclic group, a monocyclic heterocyclic group, a substituted monocyclic heterocyclic group, a monocyclic aromatic group, a substituted monocyclic aromatic group, a monocyclic heteroaromatic group, and a substituted monocyclic heteroaromatic group.

14. (Original) The composition of claim 1, wherein component A) is added in an amount of

$$IC_{50} \times 10^{-2} \geq \% \text{ of component A) } \geq IC_{50} \times 10^{-3},$$

where IC_{50} of component A) is expressed in nanomolar units.

15. (Previously Presented) The composition of claim 1, wherein component A) is added to the composition in an amount of 1 to 20%, and a sufficient amount of component B) is added such that the amounts of components A) and B) combine to equal 100%.

16. (Original) The composition of claim 1, wherein component B) comprises an ingredient selected from the group consisting of water, alcohols, aloe vera gel, allantoin, glycerin, vitamin A and E oils, mineral oil, propylene glycol, dimethyl isosorbide, polypropylene glycol-2 myristyl propionate, q) emollients, r) propellants, s) solvents, t) humectants, u) thickeners, v) powders, w) fragrances, and combinations thereof.

17. (Original) The composition of claim 16, wherein ingredient q) is selected from the group consisting of stearyl alcohol, glyceryl monoricinoleate, glyceryl monostearate, propane-1,2-diol, butane-1,3-diol, mink oil, cetyl alcohol, isopropyl isostearate, stearic acid, isobutyl palmitate, isocetyl stearate, oleyl alcohol, isopropyl laurate, hexyl laurate, decyl oleate, octadecan-2-ol, isocetyl alcohol, cetyl palmitate, di-n-butyl sebacate, isopropyl myristate, isopropyl palmitate, isopropyl stearate, butyl stearate, polyethylene glycol, triethylene glycol, lanolin, sesame oil, coconut oil, arachis oil, castor oil, acetylated lanolin alcohols, petrolatum, mineral oil, butyl myristate, isostearic acid, palmitic acid, isopropyl linoleate, lauryl lactate, myristyl lactate, decyl oleate, myristyl myristate, and combinations thereof.

18. (Original) The composition of claim 16, wherein ingredient r) is selected from the group consisting of propane, butane, isobutane, dimethyl ether, carbon dioxide, nitrous oxide, and combinations thereof.

19. (Original) The composition of claim 16, wherein ingredient s) is selected from the group consisting of water, ethyl alcohol, methylene chloride, isopropanol, castor oil, ethylene glycol monoethyl ether, diethylene glycol monobutyl ether, diethylene glycol monoethyl ether, dimethyl sulfoxide, dimethyl formamide, tetrahydrofuran, and combinations thereof.

20. (Original) The composition of claim 16, wherein ingredient t) is selected from the group consisting of glycerin, sorbitol, sodium 2-pyrrolidone-5-carboxylate, soluble collagen, dibutyl phthalate, gelatin, and combinations thereof.

21. (Original) The composition of claim 16, wherein ingredient v) is selected from the group consisting of chalk, talc, fullers earth, kaolin, starch, gums, colloidal silicon dioxide, sodium polyacrylate, tetra alkyl ammonium smectites, trialkyl aryl ammonium smectites, chemically modified magnesium aluminum silicate, organically modified montmorillonite clay, hydrated aluminum silicate, fumed silica, carboxyvinyl polymer, sodium carboxymethyl cellulose, ethylene glycol monostearate, and combinations thereof.

22-24. (Canceled)